

SOUND-DAMPING LAMINATE FOR LOUDSPEAKER STRUCTURE

ABSTRACT OF THE DISCLOSURE

For loudspeaker components with flat and/or curved panel-like regions that require hard surfaces along with sound-damping properties to minimize sound feed-through and resonances, a three-layer laminate is formed from two surface layers of commercially available thermosetting molding compound, co-molded in a single molding operation with an embedded core of suitable sound damping material such as filled vinyl copolymer compound or filled silicon rubber compound. The core region is dimensioned to leave a peripheral margin in which the two layers of molding material become bonded together so as to fully encapsulate and seal the sound-damping core. Furthermore, the margin can be made to have any desired size, thickness or shape to also serve as a mounting, fastening or other function of the component.

+